

## WHAT IS CLAIMED IS:

## 1. A computer apparatus comprising:

a wireless LAN connecting unit for carrying out Internet connection via a wireless LAN; and

an enabling arrangement enabling the wireless LAN connecting unit to carry out the Internet connection via the wireless LAN at either of first and second providing spots which are spaces located at first and second positions different from each other and providing wireless Internet connection services hosted by first and second ISPs (Internet Service Providers) different from each other;

the enabling arrangement comprising:

a current position data output unit for producing current position data representative of a current position of the computer apparatus;

a position data table memorizing, in correspondence to first and second spot data representative of the first and the second providing spots, first and second spot position data representative of the first and the second positions, first and second area data representative of first and second areas including the first and the second providing spots, and first and second ISP data representative of the first and the second ISPs hosting the first and the second providing spots;

an ISP agreement data table memorizing, in correspondence to the first and the second ISP data representative of the first and the second ISPs, first and second agreement data representative of agreements made between a user of the computer apparatus and the first and the second ISPs;

an area data and ISP data output unit, responsive to the current position data and referring to the position data table, for identifying as specific spot data one of the first and the second spot data which corresponds to one of the first and the second spot position data which coincides with the current position data, producing as specific area data one of the first and the second area data which corresponds to the specific spot data, and producing as specific ISP data one of the first and the second ISP data which corresponds to the specific spot data; and

an enable signal output unit, responsive to the specific ISP data and referring to an ISP agreement data table, for producing an enable signal if the ISP agreement data table memorizes one of the first and the second agreement data in correspondence to one of the first and the second ISP data which coincides with the specific ISP data;

the wireless LAN connecting unit being preliminarily given a plurality of wireless LAN communication modes corresponding to a plurality of area data, the wireless LAN connecting unit being responsive to the enable signal and the specific area data and automatically setting, as a selected communication mode, one of the wireless LAN communication modes which corresponds to the specific area data to carry out Internet connection via the wireless LAN in the selected communication mode.

2. A computer apparatus as claimed in claim 1, wherein:

each of the radio LAN communication modes corresponding to the area data is determined by a radio frequency channel and a transmit power level used in the area represented by the area data corresponding thereto;

the wireless LAN connecting unit carrying out Internet connection via the wireless LAN by the use of the radio frequency channel and the transmit power level which determine the selected communication mode.

3. A computer apparatus as claimed in claim 1, wherein:

the current position data output unit is a GPS (Global Positioning System) receiver responsive to a GPS signal for producing the current position data representative of the current position of the computer apparatus.

4. A computer apparatus as claimed in claim 1, wherein:

the current position data producing unit is a gyroscope for producing the current position data representative of the current position of the computer apparatus.

5. A computer apparatus comprising:

a wireless LAN connecting unit for carrying out Internet connection via a wireless LAN; and

an enabling arrangement enabling the wireless LAN connecting unit to carry out the Internet connection via the wireless LAN at either of first and second providing spots which are spaces located at first and second positions different from each other and providing wireless Internet connection services hosted by first and second ISPs (Internet Service Providers) different from each other;

the enabling arrangement comprising:

a current position data output unit for producing current position data representative of a current position of the computer apparatus;

a position data table memorizing, in correspondence to first and second spot data representative of the first and the

second providing spots, first and second spot position data representative of the first and the second positions, first and second country data representative of first and second countries including the first and the second providing spots, and first and second ISP data representative of the first and the second ISPs hosting the first and the second providing spots;

an ISP agreement data table memorizing, in correspondence to the first and the second ISP data representative of the first and the second ISPs, first and second agreement data representative of agreements made between a user of the computer apparatus and the first and the second ISPs;

a country data and ISP data output unit, responsive to the current position data and referring to the position data table, for identifying as specific spot data one of the first and the second spot data which corresponds to one of the first and the second spot position data which coincides with the current position data, producing as specific country data one of the first and the second country data which corresponds to the specific spot data, and producing as specific ISP data one of the first and the second ISP data which corresponds to the specific spot data; and

an enable signal output unit, responsive to the specific ISP data and referring to an ISP agreement data table, for producing an enable signal if the ISP agreement data table memorizes one of the first and the second agreement data in correspondence to one of the first and the second ISP data which coincides with the specific ISP data;

the wireless LAN connecting unit being preliminarily given a plurality of wireless LAN communication modes corresponding

to a plurality of country data, the wireless LAN connecting unit being responsive to the enable signal and the specific country data and automatically setting, as a selected communication mode, one of the wireless LAN communication modes which corresponds to the specific country data to carry out Internet connection via the wireless LAN in the selected communication mode.

6. A computer apparatus as claimed in claim 5, wherein:

each of the radio LAN communication modes corresponding to the country data is determined by a radio frequency channel and a transmit power level used in the country represented by the country data corresponding thereto;

the wireless LAN connecting unit carrying out Internet connection via the wireless LAN by the use of the radio frequency channel and the transmit power level which determine the selected communication mode.

7. A computer apparatus as claimed in claim 5, wherein:

the current position data output unit is a GPS (Global Positioning System) receiver responsive to a GPS signal for producing the current position data representative of the current position of the computer apparatus.

8. A computer apparatus as claimed in claim 5, wherein:

the current position data producing unit is a gyroscope for producing the current position data representative of the current position of the computer apparatus.

9. A computer apparatus comprising:

a wireless LAN connecting unit for carrying out Internet connection via a wireless LAN; and

an enabling arrangement enabling the wireless LAN connecting unit to carry out the Internet connection via the

wireless LAN at either of first and second providing spots which are spaces located at first and second positions different from each other and providing wireless Internet connection services hosted by first and second ISPs (Internet Service Providers) different from each other;

the enabling arrangement comprising:

a current position data output unit for producing current position data representative of a current position of the computer apparatus;

an area data output unit supplied with the current position data for producing specific area data representative of a specific area including the current position;

a position data table memorizing, in correspondence to first and second spot data representative of the first and the second providing spots, first and second spot position data representative of the first and the second positions, and first and second ISP data representative of the first and the second ISPs hosting the first and the second providing spots;

an ISP agreement data table memorizing, in correspondence to the first and the second ISP data representative of the first and the second ISPs, first and second agreement data representative of agreements made between a user of the computer apparatus and the first and the second ISPs;

an ISP data output unit, responsive to the current position data and referring to the position data table, for identifying as specific spot data one of the first and the second spot data which corresponds to one of the first and the second spot position data which coincides with the current position data, and producing as specific ISP data one of the first and the second

ISP data which corresponds to the specific spot data; and  
an enable signal output unit, responsive to the specific  
ISP data and referring to an ISP agreement data table, for  
producing an enable signal if the ISP agreement data table  
memorizes one of the first and the second agreement data in  
correspondence to one of the first and the second ISP data which  
coincides with the specific ISP data;

the wireless LAN connecting unit being preliminarily given  
a plurality of wireless LAN communication modes corresponding  
to a plurality of area data, the wireless LAN connecting unit  
being responsive to the enable signal and the specific area data  
and automatically setting, as a selected communication mode,  
one of the wireless LAN communication modes which corresponds  
to the specific area data to carry out Internet connection via  
the wireless LAN in the selected communication mode.

10. A computer apparatus as claimed in claim 9, wherein:  
each of the radio LAN communication modes corresponding  
to the area data is determined by a radio frequency channel and  
a transmit power level used in the area represented by the area  
data corresponding thereto;

the wireless LAN connecting unit carrying out Internet  
connection via the wireless LAN by the use of the radio frequency  
channel and the transmit power level which determine the selected  
communication mode.

11. A computer apparatus as claimed in claim 9, wherein:  
the current position data output unit is a GPS (Global  
Positioning System) receiver responsive to a GPS signal for  
producing the current position data representative of the current  
position of the computer apparatus.

12. A computer apparatus as claimed in claim 9, wherein:  
the current position data producing unit is a gyroscope  
for producing the current position data representative of the  
current position of the computer apparatus.

13. A client apparatus comprising:

a wireless LAN connecting unit for carrying out Internet  
connection via a wireless LAN; and

an enabling arrangement enabling the wireless LAN  
connecting unit to carry out the Internet connection via the  
wireless LAN at either of first and second providing spots which  
are spaces located at first and second positions different from  
each other and providing wireless Internet connection services  
hosted by first and second ISPs (Internet Service Providers)  
different from each other;

the enabling arrangement comprising:

a current position data output unit for producing current  
position data representative of a current position of the client  
apparatus;

a position data table memorizing, in correspondence to  
first and second spot data representative of the first and the  
second providing spots, first and second spot position data  
representative of the first and the second positions, first and  
second area data representative of first and second areas  
including the first and the second providing spots, and first  
and second ISP data representative of the first and the second  
ISPs hosting the first and the second providing spots;

an ISP agreement data table memorizing, in correspondence  
to the first and the second ISP data representative of the first  
and the second ISPs, first and second agreement data



representative of agreements made between a user of the client apparatus and the first and the second ISPs;

an area data and ISP data output unit, responsive to the current position data and referring to the position data table, for identifying as specific spot data one of the first and the second spot data which corresponds to one of the first and the second spot position data which coincides with the current position data, producing as specific area data one of the first and the second area data which corresponds to the specific spot data, and producing as specific ISP data one of the first and the second ISP data which corresponds to the specific spot data; and

an enable signal output unit, responsive to the specific ISP data and referring to an ISP agreement data table, for producing an enable signal if the ISP agreement data table memorizes one of the first and the second agreement data in correspondence to one of the first and the second ISP data which coincides with the specific ISP data;

the wireless LAN connecting unit being preliminarily given a plurality of wireless LAN communication modes corresponding to a plurality of area data, the wireless LAN connecting unit being responsive to the enable signal and the specific area data and automatically setting, as a selected communication mode, one of the wireless LAN communication modes which corresponds to the specific area data to carry out Internet connection via the wireless LAN in the selected communication mode.

14. A client apparatus as claimed in claim 13, wherein:

each of the radio LAN communication modes corresponding to the area data is determined by a radio frequency channel and

a transmit power level used in the area represented by the area data corresponding thereto;

the wireless LAN connecting unit carrying out Internet connection via the wireless LAN by the use of the radio frequency channel and the transmit power level which determine the selected communication mode.

15. A client apparatus as claimed in claim 13, wherein:  
the current position data output unit is a GPS (Global Positioning System) receiver responsive to a GPS signal for producing the current position data representative of the current position of the client apparatus.

16. A client apparatus as claimed in claim 13, wherein:  
the current position data producing unit is a gyroscope for producing the current position data representative of the current position of the client apparatus.

17. A client apparatus comprising:  
a wireless LAN connecting unit for carrying out Internet connection via a wireless LAN; and  
an enabling arrangement enabling the wireless LAN connecting unit to carry out the Internet connection via the wireless LAN at either of first and second providing spots which are spaces located at first and second positions different from each other and providing wireless Internet connection services hosted by first and second ISPs (Internet Service Providers) different from each other;

the enabling arrangement comprising:  
a current position data output unit for producing current position data representative of a current position of the client apparatus;

a position data table memorizing, in correspondence to first and second spot data representative of the first and the second providing spots, first and second spot position data representative of the first and the second positions, first and second country data representative of first and second countries including the first and the second providing spots, and first and second ISP data representative of the first and the second ISPs hosting the first and the second providing spots;

an ISP agreement data table memorizing, in correspondence to the first and the second ISP data representative of the first and the second ISPs, first and second agreement data representative of agreements made between a user of the client apparatus and the first and the second ISPs;

a country data and ISP data output unit, responsive to the current position data and referring to the position data table, for identifying as specific spot data one of the first and the second spot data which corresponds to one of the first and the second spot position data which coincides with the current position data, producing as specific country data one of the first and the second country data which corresponds to the specific spot data, and producing as specific ISP data one of the first and the second ISP data which corresponds to the specific spot data; and

an enable signal output unit, responsive to the specific ISP data and referring to an ISP agreement data table, for producing an enable signal if the ISP agreement data table memorizes one of the first and the second agreement data in correspondence to one of the first and the second ISP data which coincides with the specific ISP data;

the wireless LAN connecting unit being preliminarily given a plurality of wireless LAN communication modes corresponding to a plurality of country data, the wireless LAN connecting unit being responsive to the enable signal and the specific country data and automatically setting, as a selected communication mode, one of the wireless LAN communication modes which corresponds to the specific country data to carry out Internet connection via the wireless LAN in the selected communication mode.

18. A client apparatus as claimed in claim 17, wherein: each of the radio LAN communication modes corresponding to the country data is determined by a radio frequency channel and a transmit power level used in the country represented by the country data corresponding thereto;

the wireless LAN connecting unit carrying out Internet connection via the wireless LAN by the use of the radio frequency channel and the transmit power level which determine the selected communication mode.

19. A client apparatus as claimed in claim 17, wherein: the current position data output unit is a GPS (Global Positioning System) receiver responsive to a GPS signal for producing the current position data representative of the current position of the client apparatus.

20. A client apparatus as claimed in claim 17, wherein: the current position data producing unit is a gyroscope for producing the current position data representative of the current position of the client apparatus.

21. A client apparatus comprising:  
a wireless LAN connecting unit for carrying out Internet connection via a wireless LAN; and

an enabling arrangement enabling the wireless LAN connecting unit to carry out the Internet connection via the wireless LAN at either of first and second providing spots which are spaces located at first and second positions different from each other and providing wireless Internet connection services hosted by first and second ISPs (Internet Service Providers) different from each other;

the enabling arrangement comprising:

a current position data output unit for producing current position data representative of a current position of the client apparatus;

an area data output unit supplied with the current position data for producing specific area data representative of a specific area including the current position;

a position data table memorizing, in correspondence to first and second spot data representative of the first and the second providing spots, first and second spot position data representative of the first and the second positions, and first and second ISP data representative of the first and the second ISPs hosting the first and the second providing spots;

an ISP agreement data table memorizing, in correspondence to the first and the second ISP data representative of the first and the second ISPs, first and second agreement data representative of agreements made between a user of the client apparatus and the first and the second ISPs;

an ISP data output unit, responsive to the current position data and referring to the position data table, for identifying as specific spot data one of the first and the second spot data which corresponds to one of the first and the second spot position

data which coincides with the current position data, and producing as specific ISP data one of the first and the second ISP data which corresponds to the specific spot data; and

an enable signal output unit, responsive to the specific ISP data and referring to an ISP agreement data table, for producing an enable signal if the ISP agreement data table memorizes one of the first and the second agreement data in correspondence to one of the first and the second ISP data which coincides with the specific ISP data;

the wireless LAN connecting unit being preliminarily given a plurality of wireless LAN communication modes corresponding to a plurality of area data, the wireless LAN connecting unit being responsive to the enable signal and the specific area data and automatically setting, as a selected communication mode, one of the wireless LAN communication modes which corresponds to the specific area data to carry out Internet connection via the wireless LAN in the selected communication mode.

22. A client apparatus as claimed in claim 21, wherein:

each of the radio LAN communication modes corresponding to the area data is determined by a radio frequency channel and a transmit power level used in the area represented by the area data corresponding thereto;

the wireless LAN connecting unit carrying out Internet connection via the wireless LAN by the use of the radio frequency channel and the transmit power level which determine the selected communication mode.

23. A client apparatus as claimed in claim 21, wherein:

the current position data output unit is a GPS (Global Positioning System) receiver responsive to a GPS signal for

producing the current position data representative of the current position of the client apparatus.

24. A client apparatus as claimed in claim 21, wherein: the current position data producing unit is a gyroscope for producing the current position data representative of the current position of the client apparatus.

25. An electronic apparatus (10 or 10') comprising: a wireless LAN connecting unit (11) for carrying out Internet connection via a wireless LAN (13); and an enabling arrangement (12) enabling the wireless LAN connecting unit to carry out the Internet connection via the wireless LAN at either of first and second providing spots (HP#1 and HP#2) which are spaces located at first and second positions different from each other and providing wireless Internet connection services hosted by first and second ISPs (Internet Service Providers) different from each other;

the enabling arrangement comprising:

a current position data output unit (17) for producing current position data representative of a current position of the electronic apparatus;

a position data table (18) memorizing, in correspondence to first and second spot data representative of the first and the second providing spots, first and second spot position data representative of the first and the second positions, first and second area data representative of first and second areas including the first and the second providing spots, and first and second ISP data representative of the first and the second ISPs hosting the first and the second providing spots;

an ISP agreement data table (19) memorizing, in

correspondence to the first and the second ISP data representative of the first and the second ISPs, first and second agreement data representative of agreements made between a user of the electronic apparatus and the first and the second ISPs;

an area data and ISP data output unit (20), responsive to the current position data and referring to the position data table, for identifying as specific spot data one of the first and the second spot data which corresponds to one of the first and the second spot position data which coincides with the current position data, producing as specific area data (22) one of the first and the second area data which corresponds to the specific spot data, and producing as specific ISP data (23) one of the first and the second ISP data which corresponds to the specific spot data; and

an enable signal output unit (21), responsive to the specific ISP data and referring to an ISP agreement data table, for producing an enable signal (ENA) if the ISP agreement data table memorizes one of the first and the second agreement data in correspondence to one of the first and the second ISP data which coincides with the specific ISP data;

the wireless LAN connecting unit being preliminarily given at least two wireless LAN communication modes (24) corresponding to at least two area data, the wireless LAN connecting unit being responsive to the enable signal and the specific area data and automatically setting, as a selected communication mode, one of the wireless LAN communication modes which corresponds to the specific area data to carry out Internet connection via the wireless LAN in the selected communication mode.

26. An electronic apparatus as claimed in claim 25,



wherein:

said position data table memorizes, as the first and the second area data representative of said first and said second areas, first and second country data representative of first and second countries including the first and the second providing spots.

27. An electronic apparatus (30 or 30') comprising:

a wireless LAN connecting unit (11) for carrying out Internet connection via a wireless LAN (13); and

an enabling arrangement (12) enabling the wireless LAN connecting unit to carry out the Internet connection via the wireless LAN at either of first and second providing spots (HP#1 and HP#2) which are spaces located at first and second positions different from each other and providing wireless Internet connection services hosted by first and second ISPs (Internet Service Providers) different from each other;

the enabling arrangement comprising:

a current position data output unit (17) for producing current position data representative of a current position of the electronic apparatus;

a position data table (18') memorizing, in correspondence to first and second spot data representative of the first and the second providing spots, first and second spot position data representative of the first and the second positions, and first and second ISP data representative of the first and the second ISPs hosting the first and the second providing spots;

an ISP agreement data table (19) memorizing, in correspondence to the first and the second ISP data representative of the first and the second ISPs, first and second

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agreement data representative of agreements made between a user of the electronic apparatus and the first and the second ISPs;

an ISP data output unit (20''), responsive to the current position data and referring to the position data table, for identifying as specific spot data one of the first and the second spot data which corresponds to one of the first and the second spot position data which coincides with the current position data, and producing as specific ISP data (23) one of the first and the second ISP data which corresponds to the specific spot data;

an enable signal output unit (21), responsive to the specific ISP data and referring to an ISP agreement data table, for producing an enable signal (ENA) if the ISP agreement data table memorizes one of the first and the second agreement data in correspondence to one of the first and the second ISP data which coincides with the specific ISP data; and

an area data output unit (20') supplied with the current position data for producing specific area data (22) representative of a specific area including the current position;

the wireless LAN connecting unit being preliminarily given at least two wireless LAN communication modes (24) corresponding to at least two area data, the wireless LAN connecting unit being responsive to the enable signal and the specific area data and automatically setting, as a selected communication mode, one of the wireless LAN communication modes which corresponds to the specific area data to carry out Internet connection via the wireless LAN in the selected communication mode.

28. Anelectronicapparatusas claimed in any one of claims 25 and 27, wherein:

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each of the radio LAN communication modes corresponding to the area data is determined by a radio frequency channel and a transmit power level used in the area represented by the area data corresponding thereto;

the wireless LAN connecting unit carrying out Internet connection via the wireless LAN by the use of the radio frequency channel and the transmit power level which determine the selected communication mode.

29. An electronic apparatus as claimed in any one of claims 25 and 27, wherein:

the current position data output unit is a GPS (Global Positioning System) receiver (17') responsive to a GPS signal for producing the current position data representative of the current position of the electronic apparatus.

30. An electronic apparatus as claimed in any one of claims 25 and 27, wherein:

the current position data producing unit is a gyroscope for producing the current position data representative of the current position of the electronic apparatus.

31. An electronic apparatus as claimed in any one of claims 25 and 27, wherein:

said electronic apparatus is a computer apparatus.

32. An electronic apparatus as claimed in any one of claims 25 and 27, wherein:

said electronic apparatus is a PDA (Personal Digital Assistant).

33. An electronic apparatus as claimed in any one of claims 25 and 27, wherein:

said electronic apparatus is a client computer.